

A1
1. (amended) An article of clothing for metabolic cooling and for insulation of a user in a cold environment having an ambient environmental temperature which is below a comfortable skin temperature, said article comprising a thermal storage material capable of storing thermal energy as the latent heat of phase change dispersed therein, said thermal storage material having at least one phase transition at a temperature that is less than the maximum normal skin temperature but greater than ambient environmental temperature, said article to be placed in thermal contact with the skin of the user so as to provide a thermal environment at a temperature above said ambient environmental temperature for said user of said article for an extended time period, said thermal storage material further providing a heat sink to absorb metabolic heat of user, and said metabolic heat serving to recharge said thermal storage material, to thereby increase the time period for which said thermal storage material provides said thermal environment at a temperature above said ambient environmental temperature, said phase change material having a phase transition temperature equal to or less than 82 degrees Fahrenheit.

A2
5. (amended) The article of clothing of claim 1, wherein said phase change material undergoes a solid-liquid transition.

NEW CLAIMS

Please add new claims as follows:

A3
20. The article of clothing of claim 1, wherein said phase change material has a phase transition temperature in a range from 50 degrees Fahrenheit to 82 degrees Fahrenheit.

21. The article of clothing of claim 1, wherein said phase change material has a phase transition temperature of approximately 50 degrees Fahrenheit.

22. The article of clothing of claim 1, wherein said phase change material has a phase transition temperature of approximately 60 degrees Fahrenheit.

23. The article of clothing of claim 1, wherein said phase change material has a phase transition temperature of approximately 71 degrees Fahrenheit.